

General information

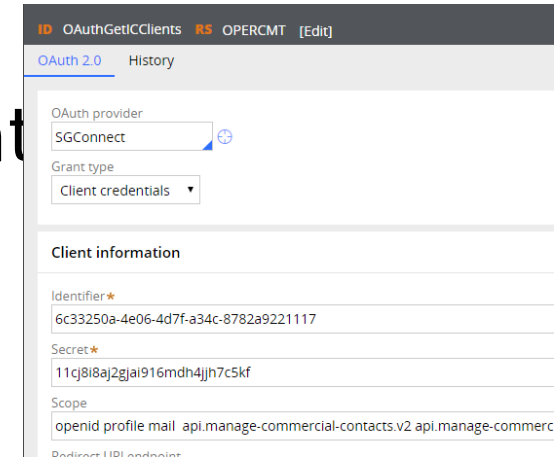
- A OAuth token is an identifier provided by a provider (SG|Connect).
- To provide this token, SG|Connect needs to have:
 - A client ID (found in application credentials page)
 - A secret code
 - Some scope (found in application credentials page and API subscription page)
 - A grant type (Client credential, Implicit or Authorization code)
- Depends to grant type, the process to get token is different.
- This token is used to identify application or user during interaction with other application

Grant type « Client credential »

- Identify application only.
- Used for « Application to Application » request (ex: request to SG|Doc).
- In CMT, used in most of Authentication profile to connect to partner API
- [Link](#) (copy paste link instead of open it)

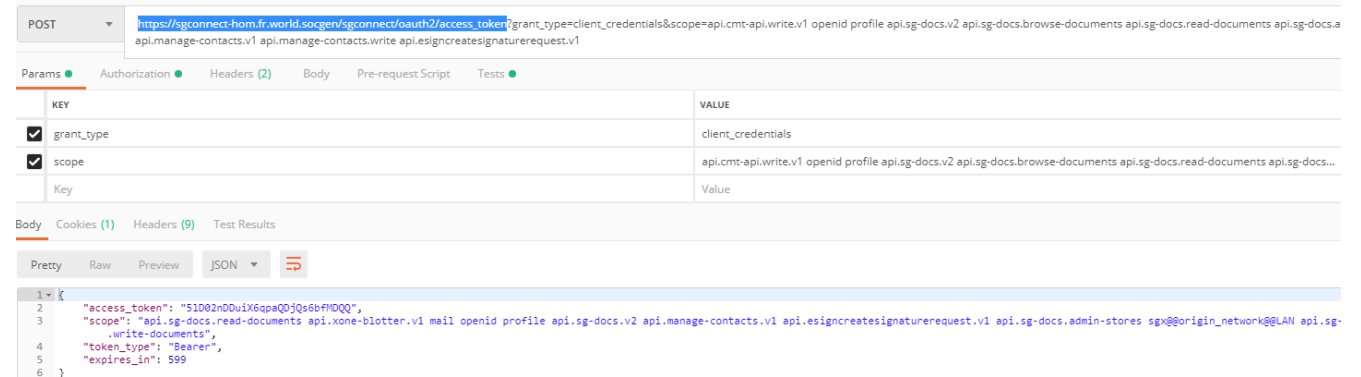
Grant type « Client credential » - Exemple

- Ex. 1: Token can be generated automatically through authentication profile.



The screenshot shows the 'OAuth 2.0' configuration tab in a tool. It includes fields for 'OAuth provider' (set to 'SGConnect'), 'Grant type' (set to 'Client credentials'), and 'Client information'. The client information section contains an 'Identifier' (6c33250a-4e06-4d7f-a34c-8782a9221117), a 'Secret' (11cj8l8aj2gjal916mdh4jjh7c5kf), and a 'Scope' (openid profile mail api.manage-commercial-contacts.v2 api.manage-commercial-contacts.v1 api.manage-commercial-contacts.v1 api.signcreatesignaturerequest.v1).

- Ex. 2: Token can be generated manually through postman with request to `https://sgconnect-hom.fr.world.socgen/sqconnect/oauth2/access_token`



The screenshot shows a Postman API client interface. The request is a POST to `https://sgconnect-hom.fr.world.socgen/sqconnect/oauth2/access_token` with the following parameters:

KEY	VALUE
grant_type	client_credentials
scope	api.cmt-api.write.v1 openid profile api.sg-docs.v2 api.sg-docs.browse-documents api.sg-docs.read-documents api.sg-docs.write-documents api.xone-blotter.v1 mail openid profile api.sg-docs.v2 api.manage-contacts.v1 api.signcreatesignaturerequest.v1 api.sg-docs.admin-stores sgx@origin_network@LAN api.sg...

The response is a JSON object:

```
{  "access_token": "51002n00uix6qpaQDjqs6bfM0Qq",  "scope": "api.sg-docs.read-documents api.xone-blotter.v1 mail openid profile api.sg-docs.v2 api.manage-contacts.v1 api.signcreatesignaturerequest.v1 api.sg-docs.admin-stores sgx@origin_network@LAN api.sg...",  "token_type": "Bearer",  "expires_in": 599}
```

Grant type « Client credential » - Exemple

- This token can be used to request API planned to use « client credential » token


DomainSuggestion - UAT

GET <https://contacts-api-hom.fr.world.socgen/1.0/sg/contacts/suggestions?email=johan.grall-ext@sgcib.com>

Params Authorization Headers (2) Body Pre-request Script Tests

KEY	VALUE
<input checked="" type="checkbox"/> email	johan.grall-ext@sgcib.com
Key	Value

Body Cookies (1) Headers (6) Test Results

Pretty Raw Preview JSON 

```
1 {
2   "names": [
3     {
4       "gender": "Mr",
5       "givenName": "Johan",
6       "name": "GRALL-EXT",
7       "probability": 90
8     }
9   ],
10  "accounts": [
11    {
12      "accountId": "2f81f5d9-9a83-402b-805a-e28b4b70afe9",
13      "probability": 90
14    }
15  ]
16 }
```

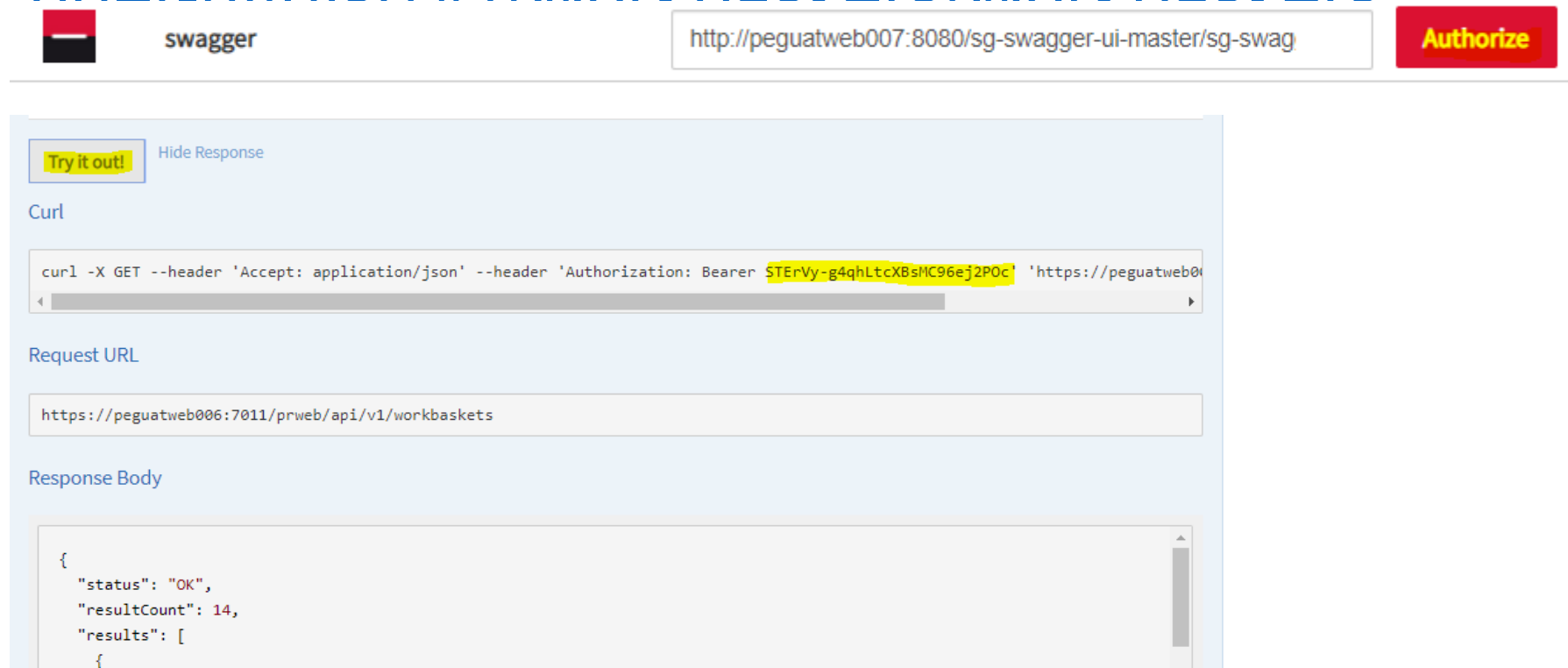
Grant type « Implicit »

- Identify application and user
- Used for swagger
- Supplementary login form is used
- [Link](#) (copy paste link instead of open it)

Grant type « Implicit » - Exemple

- From swagger:

<http://peguatweb007:8080/sg-swagger-ui-master/sg-swagger-ui/dist/#/1/Workbaskets/Workbaskets>



The image shows a Swagger UI interface. At the top, there is a header with the Swagger logo, the text "swagger", and a text input field containing the URL "http://peguatweb007:8080/sg-swagger-ui-master/sg-swagger-ui/dist/#/1/Workbaskets/Workbaskets". To the right of the input field is a red "Authorize" button. Below the header, there is a section with a "Try it out!" button and a "Hide Response" link. Underneath, the "Curl" section displays a curl command: `curl -X GET --header 'Accept: application/json' --header 'Authorization: Bearer STErVy-g4qhLtcXBsMC96ej2P0c' 'https://peguatweb007:8080/sg-swagger-ui-master/sg-swagger-ui/dist/#/1/Workbaskets/Workbaskets'`. The "Request URL" section shows the URL: `https://peguatweb006:7011/prweb/api/v1/workbaskets`. The "Response Body" section displays a JSON response: `{ "status": "OK", "resultCount": 14, "results": [{`.

Grant type « Authorization code »

- Identify application and user
- Used for user request (Ex: Connection to CMT application)
- Supplementary login form is used
- In CMT, used for user connection process and some API service
- [Link](#) (copy paste link instead of open it)

Grant type « Authorization code » - Exemple

- Ex. 1: when connect to CMT with servlet PRWebLDAP3

Thread: **Standard** ▾

Search within this thread

- pyPortal (Data-Portal)
- pyReportParameters_temp (Code-Pega-List)
- pyReportParamPage (Embed-QueryInputs)
- pyResponseAttachmentPage (Data-ServiceMessage)
- pyTempFilterPage (\$None)
- TokenAccessInfo (TokenAccess)**

Clipboard page: TokenAccessInfo

Property	Value
access_token	xEYSiGalRVOBaLc3da8zA6oHyNw
expires_in	599
id_token	eyJ0eXAiOiJKV1QiLCJraWQiOiJFdVZzaUhlZ2Fjcm91bEJaMVZlVmcvSDRdAY3Bh1GZlqwy5GY_njpor_bWayTKH76YUefp1-fb3njWMYWtwV7FJu.

- Ex. 2: When MyCases request CMT API:

Tracer - PegaRULES - Google Chrome

peguatweb006.fr.world.socgen:7011/prweb/PRWebLDAP3/ouo1ThdDvj00CFer6_W_k7KohMGqe5g?l@10ef58b7e

Tracer

Step	Step Name	Step Type	Step Method	Step Parameters
231	STANDARD	1		
230	STANDARD	1		
229	STANDARD	1	Set param:Authorization	D7f62d2_39f4_43a2_8510_c25aacaf2e0
228	STANDARD	1	Property-Set	D_Settings
227	STANDARD	1	@String.isInteger(.Value)	D_Settings
226	STANDARD	1	@String.isInteger(.Value)	D_Settings
225	STANDARD	1	Property-Set	D_Settings
224	STANDARD	1	Obj-Open	D_Settings
223	STANDARD	1	Obj-Open	D_Settings
222	STANDARD	1	Property-Map-DecisionTree	D_Settings
221	STANDARD	1	Property-Map-DecisionTree	D_Settings
220	STANDARD	1		
219	STANDARD	1	Set param:Authorization	D7f62d2_39f4_43a2_8510_c25aacaf2e0
218	STANDARD	1		
217	STANDARD	1	Java	D7f62d2_39f4_43a2_8510_c25aacaf2e0
216	STANDARD	1	Page-New	D_AccessTokenInfo
215	STANDARD	1	local.resultPageName="primary"	D_AccessTokenInfo
214	STANDARD	1	local.resultPageName="primary"	D_AccessTokenInfo
213	STANDARD	1	Page-New	D_AccessTokenInfo
212	STANDARD	1	Page-New	D_AccessTokenInfo
211	STANDARD	1	Java	D_AccessTokenInfo
210	STANDARD	1	Java	D_AccessTokenInfo
209	STANDARD	1	local.requestAuthorizationHeader=""	-unnamed=

Header

Sequence	Value
58	
Interaction	
Timestamp	Feb 26, 120 - 11:56:29 11:56:45 (20200226T10:56:29.178 GMT)
Event Type	Step Begin
Event Name	Step Begin
Event Key	RULE-OBJ-ACTIVITY @BASECLASS PXCALLCONNECTOR #20160822T155518.629 GMT
Thread Name	STANDARD
Requestor ID	A379AF394C6A4FFC8E54FF41D53C24BEE
Correlation ID	A379AF394C6A4FFC8E54FF41D53C24BEE
Node ID	cc4b2779fa53dc6b5c99e2c8a592d2
Work Pool	SGCIB-OPERCMIT-Work
Active PAL Stat	@BASECLASS PXCALLCONNECTOR
Last Step	#20160822T155518.629 GMT Step: 3 Circum: 0
Ruleset Name	Pega-RulesEngine
Ruleset Version	07-10-27
Activity Name	PXCALLCONNECTOR
Activity Number	2
Parameter Page Name	-unnamed=
Primary Page Class	SG-Data-SGConnect-AccessTokenInfo
Primary Page Name	D_AccessTokenInfo
Step Method	java
Step Number	3

Properties on Page D_AccessTokenInfo - Google Chrome

Name	Value
pxObjClass	SG-Data-SGConnect-AccessTokenInfo
pxStatus	valid
pxDPParameters	
Access Token	m2ShYib9JEhYgpmKqO9xsFIQNA

Authorization Process

- For service REST, CMT uses authentication service « SGOAuthAuthentication ».
 - Verify if token identify user.
 - If yes, then connect with this user.
 - If no, then connect with user defined in decision table « GetClientUser »
 - In DEV, SIT and UAT, hard coded token starts with « TNR_ » can be used
- For servlet PRWebdLDAP3, CMT uses authentication service « WebLDAP3 ».
 - Redirect user to login form in SGConnect
 - Use token return by SGConnect to connect the user

Remarks

- Implicit token and authorization code token are similar. There is no verification process in CMT authentication.
- SGConnect API can be used to verify grant type of a token and the user if exists.

Link

- [SG Connect documentation](#)
- [CMT API Swagger](#)
- [CMT application](#) credentials: this page indicates client ID available on CMT application with corresponding grant type and partner API
- [CMT API](#) subscription: this page indicates all partner API which subscribe to CMT API.